## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/12146

	IFICATION OF SUBJECT MATTER C1 <sup>7</sup> H01L21/205, H01L21/302			
According to	International Patent Classification (IPC) or to both nat	ional classification and IPC	. :	
B. FIELDS	SEARCHED			
Minimum do	ccumentation searched (classification system followed b	y classification symbols) 185/00-5/50	\$- ×	
Jitsu	ion searched other than minimum documentation to the tyo Shinan Koho 1922–1996  Jitsuyo Shinan Koho 1971–2003	extent that such documents are included in Toroku Jitsuyo Shinan Koho Jitsuyo Shinan Toroku Koho	1994-2003	
Electronic d	ata base consulted during the international search (name	of data base and, where practicable, sear	ch terms used)	
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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
. X	JP 59-065434 A (NEC Corp.),		1-3,11-18,	
<u>¥</u> .	13 April, 1984 (13.04.84), Full text (Family: none)		19-21,29-37 <u>38</u>	
·x	US 5400740 A (Mitsubishi Che 28 March, 1995 (28.03.95),	mical Corp.),	1-3,11-18, 19-21,29-37	
Y	Full text & JP 5-175150 A	·	<u>38</u>	
х.	Ltd.),	tric Industries,	1-3,11-18, 19-21,29-37	
<u>Y</u>	22 October, 1991 (22.10.91), Full text		38	
	(Family: none)			
			·	
X Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents:  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to				
considered to be of particular relevance understand the principle or theory underlying the invention  "E" earlier document but published on or after the international filing "X" document of particular relevance; the claimed invention cannot learned invention cannot learn			erlying the invention cannot be	
date considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be				
special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such			when the document is documents, such	
means combination being obvious to a person skilled in the ant "P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed				
Date of the actual completion of the international search 16 December, 2003 (16.12.03)  Date of mailing of the international search report 13 January, 2004 (13.01.04)				
	nailing address of the ISA/	Authorized officer	· · · · · · · · · · · · · · · · · · ·	
Japa	Japanese Patent Office			
Facsimile No. Telephone No.				

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International application No. PCT/JP03/12146

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JP 1-286991 A (Fujitsu Ltd.), 17 November, 1989 (17.11.89), Page 4, upper left column, lines 15 to 19 (Family: none)	8,26
US 5679603 A (Mitsubishi Denki Kabushiki Kaisha), 21 October, 1997 (21.10.97), Column 14, lines 20 to 41; column 16, lines 3 to 5; Fig. 8 & JP 7-263365 A Par. Nos. [0085], [0095]	38
US 6336970 B1 (Dowa Mining Co., Ltd.), 08 January, 2002 (08.01.02), Figs. 1 to 4 & JP 2000-124138 A Figs. 1 to 4	39,44
<pre>JP 2003-282455 A (NEC Corp.), 03 October, 2003 (03.10.03), Full text (Family: none)</pre>	1-48
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	US 5679603 A (Mitsubishi Denki Kabushiki Kaisha), 21 October, 1997 (21.10.97), Column 14, lines 20 to 41; column 16, lines 3 to 5; Fig. 8 & JP 7-263365 A Par. Nos. [0085], [0095]  US 6336970 B1 (Dowa Mining Co., Ltd.), 08 January, 2002 (08.01.02), Figs. 1 to 4 & JP 2000-124138 A Figs. 1 to 4  JP 2003-282455 A (NEC Corp.), 03 October, 2003 (03.10.03), Full text